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CAVALLO, FEDERICA
FORNI, GUIDO
MARCHINI, CRISTINA

<120> P185NEU-ENCODING DNA AND THERAPEUTICAL USES THEREOF

<130> 2503-1207

<140> 10/574,897

<141> 2006-04-06

<150> PCT/EP2004/011161

<151> 2004-10-06

<150> IT MI2003 A 001942

<151> 2003-10-09

<160> 43

<170> PatentIn Ver. 3.3

<210> 1

<211> 922

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
construct

<400> 1

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gcagcagaag atccggaagt aa                                     922

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<210> 2

<211> 2083

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 2

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<210> 3

<211> 1939

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 3

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1939

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<210> 4

<211> 1699

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 4

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<210> 5

<211> 1459

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic construct

<400> 5

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gcagaagatc cggaagtaa                                1459

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<210> 6

<211> 1219

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 6

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gcagaagatc cggaagtaa 1219

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<210> 7

<211> 979

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 7

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gcagaagatc cggaagtaa 979

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<210> 8

<211> 739

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 8

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<210> 9

<211> 499

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 9

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tggcattctg ctggctgtgg tcttgggggg ggtctttggg atcctcatca agcgacggca 480
gcagaagatc cggaagtaa                                499
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<210> 10

<211> 2086

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 10

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gttgcggtc cctgccagtc ctgagaccca cctggacatg ctccgccacc tgtaccaggg 180
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tctgacgtcc atcgtctctg cgggtggttg cattctgctg gtcgtggtct tgggggtgg 2040
ctttgggatc ctcatcaagc gacggcagca gaagatccgg aagtaa 2086

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<210> 11

<211> 2086

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 11

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ccggggccgga gccgcaatga tcatcatgga gctggcggcc tgggtgccgt ggggggttcc 60
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ctgtcaggta gtgcaggga acttgagct tacctacgtg cctgccaatg ccagcctctc 240
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gcgagaggtg agggcagtta ccagtgccaa tatccaggag tttgctggct gcaagaagat 1140
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tctgacgtcc atcgtctctg cggtggttg cattctgctg gtcgtggtct tgggggtggt 2040
ctttgggata ctcatcaagc gacggcagca gaagatccgg aagtaa 2086

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<210> 12

<211> 2086

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 12

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ccgggcccga gccgaatga tcatcatgga gctggcggcc tggtgccgct ggggggttcct 60
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gttgcggtc cctgccagtc ctgagacca cctggacatg ctccgccacc tgtaccagg 180
ctgtcaggta gtgcagggca acttgagct tacctacgtg cctgccaatg ccagcctctc 240
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gcgcgtccca ctgcaaaggc tgcgcacgt gagagggacc cagctctttg aggacaagta 360
tgccctggct gtgctagaca accgagatcc tcaggacaat gtcgccgct ccacccagg 420
cagaaccca gaggggctgc gggagctgca gcttcgaagt ctcacagaga tcctgaagg 480
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caccactcc tgtgtggacc tggatgacaa gggctgcccc gccgagcaga gagccagccc 1980
tctgacgtcc atcgtctctg cgggtggttg cattctgctg gtcgtggtct tgggggtggt 2040
ctttgggata ctcataaagc gacggcagca gaagatccgg aagtaa 2086

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<210> 13

<211> 2086

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 13

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ccgggccgga gccgaatga tcatcatgga gctggcgcc tgttgccgt ggggggttct 60
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cagaacccca gaggggctgc gggagctgca gcttcgaagt ctcacagaga tcctgaaggg 480
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ctttgggata ctcataaagc gacggcagca gaagatccgg aagtaa 2086

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<210> 14
 <211> 2086
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 construct

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 tctgacgtcc atcgctctct cggtggttgg cattctgctg gtcgtggtct tgggggtggt 2040
 ctttgggata ctcataaagc gacggcagca gaagatccgg aagtaa 2086

<210> 15
 <211> 71
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 15
 ccggaagtaa ataatcgacg ttcaaataat cgacgttcaa ataatcgacg ttcaaataat 60

cgacgttcaa t

71

<210> 16

<211> 71

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 16

ctagattgaa cgtcgattat ttgaacgctg attatttgaa cgtcgattat ttgaacgctg 60
attatttact t 71

<210> 17

<211> 71

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 17

ccggaagtaa ataatagagc ttcaaataat agagcttcaa ataatagagc ttcaaataat 60
agagcttcaa t 71

<210> 18

<211> 71

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 18

ctagattgaa gctctattat ttgaagctct attatttgaa gctctattat ttgaagctct 60
attatttact t 71

<210> 19

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 19

ctaggaagct tgtttaactt gctagct

27

<210> 20
 <211> 27
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 20
 agctagctag caagttaaac aagcttc

27

<210> 21
 <211> 68
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 21
 ctagataatc gacgttcaaa taatcgacgt tcaaataatc gacgttcaaa taatcgacgt 60
 tcaagttt 68

<210> 22
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 22
 aaacttgaac gtcgattatt tgaacgtcga ttatttgaac gtcgattatt tgaacgtcga 60
 ttat 64

<210> 23
 <211> 68
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 23
 ctagataata gagcttcaaa taatagagct tcaaataata gagcttcaaa taatagagct 60
 tcaagttt 68

<210> 24
 <211> 64
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 24
 aaacttgaag ctctattatt tgaagctcta ttatttgaag ctctattatt tgaagctcta 60
 ttat 64

<210> 25
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 25
 taatacgact cactataggg 20

<210> 26
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 26
 ggccggttac ccgcgattcc ggggggcagg ag 32

<210> 27
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

<400> 27
 ccggctagct agcctgtcct tctgcagga tatcc 35

<210> 28
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 28
ccggctagct agcggagggg tcttgatcca gcgga 35

<210> 29
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 29
ccggctagct agcctgcca ctgactgctg ccatg 35

<210> 30
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 30
ccggctagct agctgcaccc tcgtctgccc cctgc 35

<210> 31
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 31
ccggctagct agcccgtcc agccagagca gctcc 35

<210> 32
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 32
ccggctagct agcaacaccc acctctgctt cgtgc 35

<210> 33
 <211> 35
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 33
 ccggctagct agccccaggg agtatgtgaa tgcca 35

 <210> 34
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 primer

 <400> 34
 tagaaggcac agtcgaggct 20

 <210> 35
 <211> 43
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 35
 ccggctagct agccgcgatt ccgggggggca ggagggcgag gag 43

 <210> 36
 <211> 69
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence: Synthetic
 oligonucleotide

 <400> 36
 ctaggcatca tcatcatcat cataatggtc ataccggtga acaaaaaactc atctcagaag 60
 aggatctgg 69

<210> 37
<211> 69
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 37
ctagccagat cctcttctga gatgagtttt tgttcaccgg tatgaccatt atgatgatga 60
tgatgatgc 69

<210> 38
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 38
ccggctagct agcgctggca ttggcaggca cgtag 35

<210> 39
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 39
ccggctagct agccaggatc tctgtgagac ttcga 35

<210> 40
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 40
ccggctagct agcgcccttg caccgggcac aacca 35

<210> 41
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 41
ccggctagct agctcccact tccgtagaca ggtag

35

<210> 42
<211> 35
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<400> 42
ccggctagct agcaatgccg gaggaggggt cccca

35

<210> 43
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